

APPARATUS, SYSTEM, AND METHOD FOR MANAGING ERRORS IN PREFETCHED DATA

ABSTRACT OF THE DISCLOSURE

An apparatus, system, and method are provided for developing failure prediction software for a storage system. The present invention allows a user to edit and revise a failure prediction algorithm that includes fuzzy logic rules. The failure prediction algorithm is generated in a human readable format and uses terms and operators familiar to experts in the field of storage systems. In addition, the present invention generates the machine-readable code necessary to implement or test a draft failure prediction algorithm. If the results of the failure prediction algorithm are unsatisfactory, the user may revise the failure prediction algorithm and re-run the tests until the results correspond to expected results. In addition, the present invention includes a performance monitor, processor, and determination module. The performance monitor gathers performance data for a storage system. The processor executes the failure prediction algorithm on the performance data to produce a result. The determination module selectively forecasts failure of one or more components of the storage system in response to the result.

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